

ABSTRACT

In a method for controlling a primary current in an ignition coil of an internal combustion engine with controlled ignition, the current is established in an inductive primary circuit over a given duration, referred to as the conduction time and determined by calculation and/or as a function of measurements carried out in the primary circuit.

The conduction time is calculated according to the following steps:

- predetermining the predetermined conduction time (td_i),
- carrying out at least one measurement of the current (I_{c_i}) in the primary circuit at an instant (t_i) lying in the last tenth of the predetermined conduction time (td_i),
- estimating the current (I_{f_i}) at the end of the predetermined conduction time (td_i), as a function of the measurement(s) carried out,
- optionally correcting the conduction time (td_i) for the ignition cycle during which the last current measurement was carried out, as a function of the previous estimate and the current (I_{target_i}) desired at the end of the conduction time.

Figure 2